% of vinylidene fluoride monomer units and 3 to 20 wt. % of units of at least one monomer copolymerizable with vinylidene fluoride monomer and has an inherent viscosity of 1.7 to 7 dl/g.

2. (Amended) A polymer electrolyte, comprising: a vinylidene fluoride copolymer and a nonaqueous electrolytic solution, wherein the vinylidene fluoride copolymer comprises 80 to 97 wt. % of vinylidene fluoride monomer units and 3 to 20 wt. % of units of at least one monomer copolymerizable with vinylidene fluoride monomer and has an inherent viscosity of 1.5 to 10 dl/g, and wherein said at least one monomer copolymerizable with vinylidene fluoride comprises a mixture of hexafluoropropylene monomer and trifluorochloroethylene monomer.

3. (Amended) A polymer electrolyte according to Claim 1, wherein the vinylidene fluoride copolymer has been obtained by introducing the monomers simultaneously all at once into a polymerization vessel and then polymerizing the monomers.

7. (Amended) A polymer electrolyte according to Claim 4, wherein the vinylidene fluoride copolymer is crosslinked in the presence of (1) a crosslinking agent selected from the group consisting of polyamines, polyols and polymerizable crosslinking agents having an unsaturated bond, and (2) a radical generating agent.

9. (Amended) A nonaqueous battery, comprising: a positive electrode comprising a positive electrode material capable of being doped with and liberating lithium, a negative electrode comprising either metallic lithium or a negative electrode material similarly capable of being doped with and liberating lithium, and a polymer electrolyte according to any of Claims 1-8 between the positive electrode and the negative electrode.